

Economic Efficiency of the Transport System (TEE)

Scenario 1 Core: 15minutes bus frequency, capped TVP demand

| <b>Non-business: Commuting</b>                                |               | <b>ALL MODES</b>        | <b>ROAD</b>                  | <b>BUS and COACH</b>            | <b>RAIL</b>       | <b>OTHER</b>      |                   |
|---|---------------|-------------------------|------------------------------|---------------------------------|-------------------|-------------------|-------------------|
| <b>User benefits</b>  |               | <b>TOTAL</b>            | <b>Private Cars and LGVs</b> | <b>Passengers</b>               | <b>Passengers</b> |                   |                   |
| Travel time   | 22,691        |                         | 3,901                        | 18,790                          |                   |                   |                   |
| Vehicle operating costs                                       | 356           |                         | 356                          |                                 |                   |                   |                   |
| User charges  | 0             |                         | 0                            | 0                               |                   |                   |                   |
| During Construction & Maintenance                             | 0             |                         | 0                            | 0                               |                   |                   |                   |
| <b>COMMUTING</b>  | <b>23,047</b> | (1a)                    | <b>4,257</b>                 | <b>18,790</b>                   |                   |                   |                   |
| <b>Non-business: Other</b>                                    |               | <b>ALL MODES</b>        | <b>ROAD</b>                  | <b>BUS and COACH</b>            | <b>RAIL</b>       | <b>OTHER</b>      |                   |
| <b>User benefits</b>  |               | <b>TOTAL</b>            | <b>Private Cars and LGVs</b> | <b>Passengers</b>               | <b>Passengers</b> |                   |                   |
| Travel time   | 9,342         |                         | 2,159                        | 7,183                           |                   |                   |                   |
| Vehicle operating costs                                       | 112           |                         | 112                          |                                 |                   |                   |                   |
| User charges  | 0             |                         | 0                            | 0                               |                   |                   |                   |
| During Construction & Maintenance                             | 0             |                         | 0                            | 0                               |                   |                   |                   |
| <b>NET NON-BUSINESS BENEFITS: OTHER</b>                       | <b>9,454</b>  | (1b)                    | <b>2,271</b>                 | <b>7,183</b>                    |                   |                   |                   |
| <b>Business</b>   |               |                         | <b>Goods Vehicles</b>        | <b>Business Cars &amp; LGVs</b> | <b>Passengers</b> | <b>Freight</b>    | <b>Passengers</b> |
| <b>User benefits</b>  |               |                         |                              |                                 |                   |                   |                   |
| Travel time   | 8,078         |                         |                              | 1,805                           | 6,273             |                   |                   |
| Vehicle operating costs                                       | 1,960         |                         |                              | 230                             | 1,730             |                   |                   |
| User charges  | 0             |                         |                              | 0                               | 0                 |                   |                   |
| During Construction & Maintenance                             | 0             |                         |                              | 0                               | 0                 |                   |                   |
| <b>Subtotal</b>   | <b>10,038</b> | (2)                     | <b>0</b>                     | <b>2,035</b>                    | <b>8,003</b>      |                   |                   |
| <b>Private sector provider impacts</b>                        |               |                         |                              |                                 | <b>Freight</b>    | <b>Passengers</b> |                   |
| Revenue   | 4,243         |                         |                              |                                 | 4,243             |                   |                   |
| Operating costs   | 0             |                         |                              |                                 | 0                 |                   |                   |
| Investment costs  | 0             |                         |                              |                                 | 0                 |                   |                   |
| Grant/subsidy   | 0             |                         |                              |                                 | 0                 |                   |                   |
| <b>Subtotal</b>   | <b>4,243</b>  | (3)                     |                              |                                 | <b>4,243</b>      |                   |                   |
| <b>Other business impacts</b>                                 |               |                         |                              |                                 |                   |                   |                   |
| Developer contributions                                       | -4,338        | (4)                     |                              |                                 |                   |                   |                   |
| <b>NET BUSINESS IMPACT</b>                                    | <b>9,943</b>  | (5) = (2) + (3) + (4)   |                              |                                 |                   |                   |                   |
| <b>TOTAL</b>  |               |                         |                              |                                 |                   |                   |                   |
| Present Value of Transport Economic Efficiency Benefits (TEE) | 42,444        | (6) = (1a) + (1b) + (5) |                              |                                 |                   |                   |                   |

Notes: Benefits appear as positive numbers, while costs appear as negative numbers.  
All entries are discounted present values, in 2010 prices and values